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20 Attorneys for Defendants, Counterclaimants and Third-Party Plaintiff  
21 ViaSat, Inc. and Paradise Datacom, LLC

22 UNITED STATES DISTRICT COURT  
23 NORTHERN DISTRICT OF CALIFORNIA

24 OAKLAND DIVISION

25 APPLIED SIGNAL TECHNOLOGY, INC.

26 Case No. 09-CV-02180-SBA

27 Plaintiff,

28 v.

29 EMERGING MARKETS  
30 COMMUNICATIONS, INC.; EMC SATCOM  
31 TECHNOLOGIES, INC.; PARADISE  
32 DATACOM, LLC; and VIASAT, INC.,

33 Defendants.

34 AND RELATED CLAIMS.

**35 DECLARATION OF DONALD W.  
36 BECKER IN SUPPORT OF VIASAT,  
37 INC. AND PARADISE DATACOM  
38 LLC'S NOTICE OF MOTION AND  
39 MOTION FOR ENTRY OF  
40 PROTECTIVE ORDER**

41 Date: January 11, 2011

42 Time: 9:00 a.m.

43 Place: Courtroom 1, 4th Floor

44 Judge: Hon. Saundra B. Armstrong

1 I, Donald W. Becker, declare as follows:

2 1. I have been employed at ViaSat, Inc. since December 2006. Prior to my  
3 employment with ViaSat, I consulted for ViaSat off and on for about twenty years prior to the  
4 time I became an employee. My current title is Vice President, Advanced Development. I make  
5 this declaration of my own personal knowledge, and if called upon as a witness would  
6 competently testify to the facts set forth below.

7 2. I received a Bachelor's Degree in Applied Physics and Information Science from  
8 UCSD in 1970. I received a Master's Degree in Information and Computer Science from UCSD  
9 in 1972, and a PhD in Information and Computer Science from UCSD in 1973.

10 3. I have been working as a systems engineer in the satellite communications and  
11 related fields since 1973.

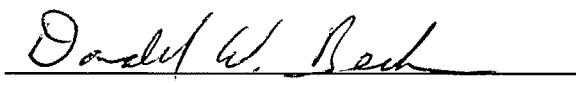
12 4. In 1997, I started working on a ViaSat technology called Paired-Carrier Multiple  
13 Access, which is frequently called PCMA for short. PCMA technology allows a more efficient  
14 use of satellite communication channels. ViaSat sells products that incorporate PCMA  
15 technology, which is a proprietary and confidential ViaSat technology.

16 5. ViaSat products that implement PCMA are used in shared-channel satellite  
17 applications. By "shared-channel satellite communications," I am referring to the transmission of  
18 a signal from a local station to a satellite that reflects a frequency-translated version of the signal  
19 back to the local station. The reflected signal is within the same frequency range as a signal  
20 being relayed by the satellite to the local station from a remote station. The reflected signal  
21 interferes with the relayed signal from the remote station, and PCMA is used to cancel this  
22 interference so the local station can receive the relayed signal.

23 6. PCMA technology can also be used in applications other than shared channel  
24 satellite communications. For example, it can be used in shared-channel microwave  
25 communications in which signals are not relayed by a satellite but rather by a microwave  
26 transmitter on the Earth. PCMA can also be used in applications that do not involve shared-  
27 channel communications, for example, where the reflected signal is not primarily within the  
28 frequency range of the relayed signal but still interferes with the reception of the relayed signal

1 by the local station. The PCMA technology can be used in this application to cancel the  
2 interference.

3  
4 I declare under penalty of perjury under the laws of the United States that the foregoing is  
5 true and correct and that this declaration was executed by me in Carlsbad, California, this 30th  
6 day of September, 2010.

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8   
9 Donald W. Becker

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